

Title (en)

COMPOSITE STATOR FOR ELECTROMECHANICAL POWER CONVERSION

Title (de)

VERBUNDSTATOR ZUR UMWANDLUNG EINER ELEKTROMECHANISCHEN LEISTUNG

Title (fr)

STATOR COMPOSITE POUR UNE CONVERSION DE PUISSANCE ÉLECTROMÉCANIQUE

Publication

**EP 2847851 A4 20160224 (EN)**

Application

**EP 13788581 A 20130508**

Priority

- US 201261644976 P 20120509
- US 201313802715 A 20130314
- US 2013040203 W 20130508

Abstract (en)

[origin: US2013300241A1] A rotating electromechanical apparatus includes a cylindrical ironless stator coil comprising a plurality of wires, a magnetic rotor arranged with the stator coil, wherein the magnetic field flux associated with the rotor interacts with the stator coil wires by electromagnetic induction, a cylindrical bobbin arranged to support the wires, a strand woven on at least the outer circumference of the wire-wrapped cylindrical bobbin, and a curable potting material potting the wires, bobbin and strand to provide an ironless composite stator coil when cured.

IPC 8 full level

**H02K 3/47** (2006.01); **H02K 15/04** (2006.01)

CPC (source: EP US)

**H02K 1/27** (2013.01 - US); **H02K 3/04** (2013.01 - EP US); **H02K 3/28** (2013.01 - US); **H02K 3/47** (2013.01 - EP US); **H02K 15/04** (2013.01 - US); **H02K 15/0492** (2013.01 - EP US); **Y10T 29/49009** (2015.01 - EP US)

Citation (search report)

- [X] US 4556811 A 19851203 - HENDRICKS HOWARD F [US]
- [A] US 4883981 A 19891128 - GERFAST STEN R [US]
- See references of WO 2013169945A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 2013300241 A1 20131114**; **US 9425664 B2 20160823**; CA 2873049 A1 20131114; CA 2873049 C 20181030; EP 2847851 A1 20150318; EP 2847851 A4 20160224; JP 2015520596 A 20150716; JP 2018153095 A 20180927; JP 6346172 B2 20180620; WO 2013169945 A1 20131114

DOCDB simple family (application)

**US 201313802715 A 20130314**; CA 2873049 A 20130508; EP 13788581 A 20130508; JP 2015511670 A 20130508; JP 2018099324 A 20180524; US 2013040203 W 20130508